

1. A keypad for entering letters, comprising:

an array of keys with each key being assigned to at least one letter of an alphabetical system based on the frequency of occurrence of the least one letter in a typical body of written work, wherein the alphabetical system comprises at least one most-frequently-occurring letter that is entered by more than one key activation associated with the same key and at least one less-frequently-occurring letter that is entered by at least one key activation associated with each of at least two different keys.

2. The key-pad of claim 1, wherein each key is a soft-keys presented to a user on a display device in accordance with a program executed on a device processor.

- 3. The keypad of claim 1, wherein the more than one key activation at the same key requires at least one touching and at least one un-touching of a touch-sensitive surface at substantially the same location, and wherein the at least one key activation at each of at least two different keys requires touching the touch-sensitive surface at a first location and untouching the touch sensitive surface at a second location that is different from the first location.
- 4. The keypad of claim 1, wherein one or more letters are assigned to each key in accordance with a position array having defined position elements.
- 5. The keypad of claim 4, wherein the position elements include a central position and at least one peripheral position that point to an adjacent key.
  - 6. The keypad of claim 5, wherein a most-frequently-occurring letter is assigned to the central position and a less-frequently-occurring letter is assigned to the peripheral position.
- 7. The keypad of claim 6, wherein a less-frequently-occurring letter is entered by a two-key sequence that requires first activating a key assigned to the less-frequently-occurring letter and then activating the key to which the position element of the less-frequently-occurring letter points to.
  - 8. The keypad of claim 7, wherein one or more non-letter symbols or characters are assigned to each key in accordance with position elements of the position array, wherein a

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non-letter symbol or character is entered by a two-key sequence that requires first activating the key assigned to a non-letter symbol or character and then activating the key to which the position element of the non-letter symbol or character points to.

- 9. The keypad of claim 1, wherein a wrap-around extension points to a non-adjacent key, if a peripheral position points to no adjacent key.
- 10. The keypad of claim 1, wherein a key activation includes touching of substantially the same or different locations of a surface or un-touching of substantially the same or different locations of the surface.
- 11. A keypad system comprising:
- (a) an array of keys with each key being assigned to at least one letter in an alphabetical system;
  - (b) a detector that detects activation at a key; and
  - (c) a signal generator that generates a character signal corresponding to a selected letter in accordance with a key sequence, wherein for a most-frequently-occurring letter, the key sequence requires two key activations at the same key, and for a less-frequently-occurring letter the key sequence requires key activation at two different keys.
- 12. The keypad system of claim 11, wherein most-frequently-occurring letters are assigned, at most, to each one of all of the keys within the key array, and less-frequently-occurring letters are assigned in accordance with at least one element of a position array.
- 13. The keypad system of claim 12, wherein at least one least-frequently-occurring letter is assigned in accordance with at least one element of the position array.
- 14. The keypad system of claim 13, wherein the array of keys comprises M rows and N columns and the number of letters in the alphabetical system is equal to L.
- 25 15. The keypad system of claim 14, wherein M=N=3 and L = 26.

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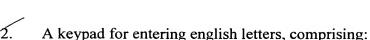
- 16. The keypad system of claim 14, wherein M=4 and N=3, and wherein one of the keys that is not assigned to a letter is used for selecting an alphanumeric operating mode of the keypad system.
- 17. The keypad of claim 11, wherein each key is a soft-keys presented to a user on a display device in accordance with a program executed on a device processor.
- 18. The keypad system of claim 11, wherein a key activation includes touching of substantially the same or different locations of a surface or un-touching of substantially the same or different locations of the surface.

19. An information entry method for a keypad, comprising:

- (a) determining the frequency of occurrences of letters in a typical body of written work that is based on an alphabetical system;
- (b) assigning letters to an array of keys based on the frequency of occurrence of the letter;
- (c) activating at least one of the keys in accordance with a key sequence that corresponds to a selected letter, wherein for a most-frequently-occurring letter, the key sequence requires multiple activation of the same key, and for a less-frequently-occurring letter the key sequence requires activation of two different keys; and
- (d) generating a character signal corresponding to the selected letter in response to the key sequence.
- 20. The method of claim 19, wherein a key activation includes touching of substantially the same or different locations of a surface or un-touching of substantially the same or different locations of the surface.
- The method claim 19, wherein each key is a soft-keys presented to a user on a display device in accordance with a program executed on a device processor.

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(a) an array of nine keys numbered key 1 through key 9, wherein

key 1 is assigned to letter A;

key 2 is assigned to letter N;

key 3 is assigned to letter I;

key 4 is assigned to letter H;

key 5 is assigned to letter O;

key 6 is assigned to letter R;

key ₹ is assigned to letter T;

key 8 is assigned to letter E; and

key 9 is assigned to letter S.

- 23. The keypad of claim 19, wherein letters V, L, X, K, M, Y, W, and F are further assigned to keys 1, 2, 3, 4, 6, 7, 8, 9 respectively.
- 24. The keypad of claim 19, wherein letters Q, U, P, C, B, G, D, and J are further assigned to key 5.
- 25. A keypad for entering data symbols, comprising:

an array of keys having at least one key assigned to a data symbol in accordance with a position array that has defined position elements, including at least one peripheral position that point to a non-adjacent key, wherein at least one data symbol is entered by key activation of a key and a non-adjacent key that is pointed to by a peripheral position of the key.

- 26. The keypad of claim 25, wherein the non-adjacent key is a key that is specified by a wrap-around position of the array of keys.
- 27. The method claim 25, wherein each key is a soft-keys presented to a user on a display device in accordance with a program executed on a device processor.

28. The method of claim 25, wherein a key activation includes touching of substantially the same or different locations of a surface or un-touching of substantially the same or different locations of the surface.